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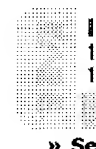| Hide?	Set Name	Query	Hit Count
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☐	L1	agent near12 (hierarch$ or tier$ or level$ or tree or thread$ or chain$ or upchain$ or downchain$) near12 (monitor$ or track$ or measur$) near12 (qos or (quality near servic$) or performanc$)	26

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☐	L15	l2 near8 agent$ near8 (tier$ or hierarch$ or level$ or nest$)	5
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☐	L11	agent$ same (monitor$ or track$ or manag$) same (measurement$ or qos or (quality of service) or performanc$) same (tier$ or hierarch$ or level$ or nest$)	398
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☐	L9	l7[ti,ab]	20
☐	L8	L7 and l3	44
☐	L7	agent$ same (monitor$ or manag$) same (measurement$ or qos or (quality of service) or performanc$) same (tier$ or hierarch$ or level$ or nest$)	383
☐	L6	agent$ same (monitor$ or manag$) same (measurement$ or qos or (quality of service)) same (tier$ or hierarch$ or level$ or nest$)	216
☐	L5	l2 same agent$	24
☐	L4	l2 and L3	2
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Parekh, S.; Gandhi, N.; Hellerstein, J.; Tilbury, D.; Jayram, T.; Bigus, J.;
Integrated Network Management Proceedings, 2001 IEEE/IFIP International Symposium on , 14-18 May 2001
Pages:841 - 854

[Abstract]   [PDF Full-Text (760 KB)]   **IEEE CNF**

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2 **Solomon: monitoring end-user service levels**
Frolund, S.; Jain, M.; Pruyne, J.;
Integrated Network Management, 1999. Distributed Management for the Networked Millennium. Proceedings of the Sixth IFIP/IEEE International Symposium on , 24-28 May 1999
Pages:261 - 274

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Solomon: monitoring end-user service levels

Frolund, S.   Jain, M.   Pruyne, J.
Hewlett-Packard Labs., Palo Alto, CA, USA;

This paper appears in: **Integrated Network Management, 1999. Distribu Management for the Networked Millennium. Proceedings of the Sixth International Symposium on**

Abstract:
To manage distributed applications, we need to accurately monitor end-user s levels. There are two key challenges in monitoring end-user service levels: expressiveness and scalability. There is a big semantic gap between the metr administrators want to monitor and the metrics offered by commercial measu systems. Moreover, it is hard to apply the same kind of metrics to different ap because different applications are likely to offer different types of instrumenta We want to apply the same metrics to very large numbers of instrumentation which makes scalability a key issue. In this work we present the activity moni language (AML) for declaratively specifying metrics, and a run-time system, c Solomon (**service level objective** monitor), that implements the concepts ir Expressiveness is a result of AML, which allows the high-level specification of defined metrics in an application-neutral way. Solomon's scalability is a result events and measurements as close to their physical source as is possible with of accuracy

Index Terms:
computer network management   formal specification   monitoring   quality of service   sp languages   AML   Solomon   activity monitoring language   declarative specification   dis application management   end-user service levels   expressiveness   high-level specifica system   scalability   **service level objective** monitor   user-defined metrics

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1   Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Full text available: pdf(341.62 KB)   Additional Information: full citation, abstract, references, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

2   Session 10D: management of computation: Intelligent agents for QoS management

Krunoslav Trzec, Darko Huljenic

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**

Full text available: pdf(281.59 KB)   Additional Information: full citation, abstract, references, index terms

This paper addresses the structural and behavioral characteristics of multi-agent system (MAS) for Quality of Service (QoS) management using MESSAGE (Methodology for Engineering Systems of Software Agents) modeling language that extends UML (Unified Modeling Language) by contributing agent knowledge level concepts and diagrams with notation for viewing them. Such a multi-agent system is an environment composed of Intelligent Agents (IAs) that ensure guaranteed QoS offered by multi-service commun ...

Keywords: MESSAGE/UML, QoS management, intelligent agents

3   Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Intelligent agents for QoS management

Full text   Pdf (282 KB)

Source   **International Conference on Autonomous Agents** archive
Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3 table of contents
Bologna, Italy
SESSION: Session 10D: management of computation table of contents
Pages: 1405 - 1412
Year of Publication: 2002
ISBN:1-58113-480-0

Authors   Krunoslav Trzec Ericsson Nikola Tesla, Zagreb, Croatia
Darko Huljenic   Ericsson Nikola Tesla, Zagreb, Croatia

Sponsors   ACM: Association for Computing Machinery
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↑ ABSTRACT

This paper addresses the structural and behavioral characteristics of multi-agent system (MAS) for Quality of Service (QoS) management using MESSAGE (Methodology for Engineering Systems of Software Agents) modeling language that extends UML (Unified Modeling Language) by contributing agent knowledge level concepts and diagrams with notation for viewing them. Such a multi-agent system is an environment composed of Intelligent Agents (IAs) that ensure guaranteed QoS offered by multi-service communication networks according to Service Level Agreements (SLAs) among users and service providers. A hybrid layered agent architecture that exploits both goal-orientation and reactiveness is designed. It supports flexible and adaptive behavior as well as collaboration among the intelligent agents. It is shown that the applied multi-agent system for QoS management provides transformation of current communication networks toward a multi-service ubiquitous infrastructure with a unified QoS management architecture.

↑ REFERENCES

Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

1   Stefan Fricke , Karsten Bsufka , Jan Keiser , Torge Schmidt , Ralf Sesseler , Sahin Albayrak, Agent-based telematic services and telecom applications, Communications of the ACM, v.44 n.4,

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Managing service level agreements

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Source   **International Journal of Network Management** archive
Volume 9 , Issue 3   May–June 1999 table of contents
Pages: 155 - 166
Year of Publication: 1999
ISSN:1099-1190

Author   Nathan J. Muller

Publisher   John Wiley & Sons, Inc.   New York, NY, USA

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⬆ ABSTRACT

Service level agreements are increasingly being used in enterprise networks and are contracts that specify the performance parameters within which a network service is provided. In this article their application, preparation, and effects on IT departments are considered. Copyright © 1999 John Wiley & Sons, Ltd.

⬆ INDEX TERMS

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Additional Classification:
  C. Computer Systems Organization
  ↳ **C.2** COMPUTER-COMMUNICATION NETWORKS
    ↳ **C.2.3** Network Operations
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Using Control Theory to Achieve **Service Level Objectives** In Performance Management Sujay Parekh
www.research.ibm.com/PM/im2001gac.pdf

Facade: virtual storage devices with performance guarantees - Lumb, Merchant, Alvarez (2003) (Correct)
a Service Level Agreement that combines a **Service Level Objective** (SLO) specifying the capacity,
www.hpl.hp.com/research/ssp//papers/FAST2003-facade.ps

Optimal shift scheduling with a global service level constraint - Koole, van der Sluis (Correct)
problem for call centers with an overall **service level objective**. We prove a property of this problem,
www.cs.vu.nl/~koole/articles/report98/art.pdf

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